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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/564,569

01/13/2006

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EXAMINER

CHOWDHURY, NIGAR

ART UNIT

PAPER NUMBER

2621

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/564,569	<b>Applicant(s)</b> WORRELL ET AL.	
	<b>Examiner</b> NIGAR CHOWDHURY	<b>Art Unit</b> 2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 13 January 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 January 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>1/13/06, 1/7/08</u>   | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1, 3, 6-7, 8-9, 12-14 are rejected under 35 U.S.C. 102(b) as being anticipated by US 5,579,183 by Van Gestel et al.
2. Regarding **claim 1**, a method for providing trick mode operations for sub-channels of multiplexed streams stored by a digital storage medium, comprising the steps of:
  - receiving at the recording device, a trick mode command directed to a particular sub-channel (I-frame) of a multiplexed stream (fig. 5-6, col. 12 lines 11-30);
  - identifying frame data stored by the digital storage medium corresponding to the particular sub-channel (fig. 5-6, col. 12 lines 11-30, col. 19 lines 46-col. 20 lines 19); and
  - extracting, from the frame data, trick mode data for the particular sub-channel (fig. 5-6, col. 12 lines 11-30, col. 19 lines 46-col. 20 lines 19).

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3. Regarding **claim 3**, the method further comprising the step of outputting the trick mode data for the particular sub-channel to a display device for display thereby (fig. 5-6, col. 12 lines 11-30, col. 19 lines 46-col. 20 lines 19).

4. Regarding **claim 6**, the method wherein the multiplexed stream is a Moving Picture Experts Group (MPEG) transport stream (See Abstract).

5. Regarding **claim 7**, the method wherein the particular sub-channel of the multiplexed stream is specified as an operand in the trick mode command (fig. 5-6, col. 12 lines 11-30, col. 19 lines 46-col. 20 lines 19).

6. Regarding **claim 8**, the method wherein at least one of a plurality of trick mode operations to be applied to the particular sub-channel is specified as another operand in the trick mode command (fig. 5-6, col. 12 lines 11-30, col. 19 lines 46-col. 20 lines 19).

7. **Claim 9** is rejected for the same reason as discussed in the corresponding claim 1 above.

8. **Claim 12** is rejected for the same reason as discussed in the corresponding claim 6 above.

9. **Claim 13** is rejected for the same reason as discussed in the corresponding claim 7 above.

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10. **Claim 14** is rejected for the same reason as discussed in the corresponding claim 8 above.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

11. Claims 2, 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 5,579,183 by Van Gestel et al. in view of US 7,106,749 by Darshan et al.

12. Regarding claim 2, Van Gestel discloses the frame data comprises Intra-coded frames for the particular sub-channel but fails to disclose the method wherein the frame data comprises complete Intra-coded frames (I-frames) for the particular sub-channel.

Darshan discloses the method wherein the frame data comprises complete Intra-coded frames (I-frames) for the particular sub-channel (col. 9 lines 14-26).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the proposed combination of Van Gestes's system to include a complete I-frame, as taught by Darshan, for the advantage of providing an easy trick play mode.

13. **Claim 10** is rejected for the same reason as discussed in the corresponding claim 2 above.

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14. Claims 4-5, 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 5,579,183 by Van Gestel et al.

15. Regarding **claim 4**, Van Gestel discloses the frame data comprises Intra-coded frames for the particular sub-channel but fails to disclose the method wherein receiving step sending step is performed in response to a user selecting the trick mode command via a remote control device.

It is noted that the use of remote control is old and well-known in the recording art. Therefore, official notice is taken. Moreover, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have a well-known remote control to operate different function which will be convenient for a user while watching.

16. Regarding **claim 5**, Van Gestel discloses the frame data comprises Intra-coded frames for the particular sub-channel but fails to disclose the method wherein the digital storage medium is Institute of Electrical & Electronics Engineers 1394 (IEEE-1394) compliant.

It is noted that the use of IEEE is old and well-known in the recording art. Therefore, official notice is taken. Moreover, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have a well-known IEEE for having reliable and secure network.

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17. **Claim 11** is rejected for the same reason as discussed in the corresponding claim 5 above.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NIGAR CHOWDHURY whose telephone number is (571)272-8890. The examiner can normally be reached on 9 AM - 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

NC  
03/24/2009

/JAMIE JO VENT ATALA/  
Examiner, Art Unit 2621